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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/053,760 | 01/22/2002 | Srinivis Podila | 002-4: CSN 4836 | 5445 |

30080 7590 05/25/2004

LAW OFFICE OF CHARLES E. KRUEGER
P.O. BOX 5607
WALNUT CREEK, CA 94596-1607

EXAMINER

KIM, HONG CHONG

| ART UNIT | PAPER NUMBER |
|----------|--------------|
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2186

DATE MAILED: 05/25/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/053,760

Applicant(s)

PODILA ET AL.

Examiner

Hong C Kim

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 January 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-3 is/are allowed.
- 6) ☒ Claim(s) 4-6 is/are rejected.
- 7) ☒ Claim(s) 7-10 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 January 2002 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 4.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

Detailed Action

1. Claims 1-10 are presented for examination.
2. Receipt is acknowledged of information disclosure statement filed on 7/22/02, which the statement has been placed of record in the file. Information disclosed and listed on PTO 1449 was considered.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, a flow diagram illustrating the logic implementation of in a computer system executing a plurality of processes, with each process having its own memory space and having access to a shared memory, an improved method for allocating shared memory, including the acts of: maintaining access information identifying all client processes having access to shared memory; at a first process that has allocated additional shared memory: obtaining access information identifying a second process having access to shared memory; using a peer mapping system call to request mapping the additional shared memory into the address spaces of the second process having access to the shared memory; in response to the peer mapping system call, mapping the additional shared memory into the address space of the second process having access to the shared memory so that second process has the entire active shared memory mapped into its

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address space must be shown or the feature cancelled from the claim. No new matter should be entered.

4. The drawings are objected to under 37 CFR 1.83(a) because they fail to show access information identifying all client processes and a second process, a peer mapping, process ID, descriptive names, address space of a start or restarted client process, pointer, a header of the shared memory, system call code, library, and micro kernel as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

5. The drawings are objected to because connections and arrowheads are missing in Fig. 1 and Fig. 2. Figure 1 is described as prior art on page 3 line 15, but is not labeled as such.

6. Applicant is required to submit a proposed drawing correction in response to this Office Action. Any proposal by the applicant for amendment of the drawings to cure defects must consist of two parts:

- a) A *separate* letter to the Draftsman in accordance with MPEP ' 608.02(r); and
- b) A print or pen-and-ink sketch showing changes in *red ink* in accordance with MPEP ' 608.02(v).

IMPORTANT NOTE: The filing of new formal drawings to correct the noted defect may be deferred until the application is allowed by the examiner, but the print or pen-and-ink sketch with proposed corrections shown in red ink is required in response to this Office Action, and *may not be deferred*.

Specification

7. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The title should be more specific to differentiate the invention from similar inventions in the patent literature. Also, "peer mapping" aspect of the invention should be mentioned in the title so that the title is more descriptive.

Claim Objections

8. As to claim 8, in line 4, it is unclear what is meant by "it pointer". It appears that it should be changed to --its pointer-- for clarity.

9. Claims 2, 3, 6 and 7 recite the limitation "the process IDs" in each of the claim. There is insufficient antecedent basis for this limitation in the claim.

10. Claim 10 recites the limitation "the system call" in line 3 and "micro kernel" in line 6. There are insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

11. Claims 4-6 are rejected under 35 U.S.C. 102(a) as being anticipated by Applicant's admitted prior art (AAPA) pp 1-2.

As to claim 4, AAPA discloses the invention as claimed. AAPA discloses a computer program product for use on a system including a digital computer that implements shared memory (block 9) shared between at least a first and second process (block 10), the computer program product comprises a computer usable medium having computer readable program code physically embodied therein, said computer program product further comprises computer readable program code for causing said digital computer to maintain access information identifying all client processes having access to shared memory (block 12); computer readable program code, responsive to a peer mapping system (blocks 9-10) call from said first process, for causing said digital computer to utilize the access information to map the additional shared memory into the address space of the second process having access to the shared memory so that second process has the entire active shared memory mapped to its address space (blocks 12-13, link the pools together) .

As to claim 5, AAPA discloses the invention as claimed above. AAPA further discloses computer readable program code for causing said digital computer to

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maintain information specifying the location of shared memory mapped to each process (block 9).

As to claim 6, AAPA discloses the invention as claimed above. AAPA further discloses computer readable program code for causing said digital computer to maintain a data structure containing the process IDs of each process having access to the shared memory (block 11, server and client reads on this limitation).

Allowable Subject Matter

12. Claims 2-3 and 7-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim, any intervening claims, and overcome claim objection.

Claim 1 is allowed.

Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See attached PTO-892

A shortened statutory period for response to this action is set to expire 3 (three) months and 0 (zero) days from the mail date of this letter. Failure to respond within the period for response will result in **ABANDONMENT** of the application (see 35 USC 133, MPEP 710.02, 710.02(b)).

Applicants are requested to number each line of each claim starting with line number one to provide easier communication in the future.

When responding to the office action, Applicant is advised to clearly point out the patentable novelty which he or she thinks the claims present in view of the state of the art disclosed by the references cited or the objections made. He or she must also show how the amendments avoid such references or objections. See 37 C.F.R. ' 1.111(c).

When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist examiner to locate the appropriate paragraphs.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong C Kim whose telephone number is 703-305-3835. The examiner can normally be reached on M-F 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt M Kim can be reached on (703) 305-3821. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

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Any response to this action should be mailed to:

Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to TC-2100:
703-872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121
Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


H Kim
Primary Patent Examiner
May 19, 2004